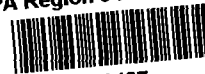


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EPA Region 5 Records Ctr.



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**LETTER REPORT
FOR
GRANITE CITY TRAILER
GRANITE CITY, MADISON COUNTY, ILLINOIS
TDD: S05-9906-011
PAN: 9N1101RZXX**

October 29, 1999

Prepared for:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency and Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604**

Prepared by: Paul Atkociunas Date: 10/29/99
Paul Atkociunas, START Project Manager

Reviewed by: Paul Atkociunas Date: 10/29/99
for Patrick Zwilling, START Assistant Program Manager

Approved by: Paul Atkociunas Date: 10/29/99
for Mary Jane Ripp, START Program Manager



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October 29, 1999

Gail Nabasny, START Project Officer
Emergency Support Section
United States Environmental Protection Agency
77 West Jackson Boulevard - HSE-5J
Chicago, Illinois 60604

Re: Granite City Trailer
Granite City, Madison County, Illinois
TDD: S05-9906-011
PAN: 9N1101RZXX

Dear Ms. Nabasny:

The United States Environmental Protection Agency (U.S. EPA) tasked the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START), under Technical Direction Document (TDD) S05-9906-011, to assist U.S. EPA On-Scene Coordinator (OSC) Kevin Turner with technical support for emergency response activities at the Granite City Trailer (GCT) work area. START documented activities, assisted in the segregation of waste materials, performed hazard categorization (hazcat) on unknown materials, performed air monitoring, made recommendations to U.S. EPA regarding sampling and disposal options, provided oversight of contractor activities, and assisted in drum sampling.

The GCT staging/work area was located at the Waste Management, Inc. Chain of Rocks landfill in Granite City, Madison County, Illinois (Attachment A, Figure 1). Geographical coordinates for the staging/work area are latitude 38°45.481' North and longitude 90°9.220' West. It should be noted that Waste Management, Inc., was not the cause of the emergency response, rather they provided a secure location for U.S. EPA to conduct emergency response activities. The landfill is located on the Chouteau Island. The Chain of Rocks Canal is located approximately 0.5 mile east of the staging/work area and the Mississippi River is located approximately 0.75 mile west of the staging/work area. The landfill is located on Chain of Rocks Road approximately 1 mile east of State Route 3. The nearest residence is located approximately 0.75 mile to the east. Granite City is supplied drinking water by intakes on the Mississippi River. The staging/work area was located on a concrete drive on the active landfill, which is fenced and secured from the public (Attachment A, Figure 2).

The GCT emergency response consisted of an abandoned trailer that contained 27 drums and thousands of miscellaneous smaller containers. The 50-foot flat bed (low boy) trailer contained a variety of waste drums. Several drums were labeled corrosive, flammable, or paint waste. Some of the miscellaneous containers were labeled corrosive, corrosive toxic, flammable, or combustible. Many of the drums and containers were deteriorated and visibly leaking. Many of the containers contained commercial chemical products and had distributor/manufacturer information attached. The flat bed trailer is open on the top and sides, with the containers exposed to the environment. Rainfall, thermal expansion of wastes, or severe weather events could have caused additional releases into the environment. The trailer contained wastes which were incompatible. A 40-gallon poly drum was

labeled hydrochloric acid, and there were several drums that contained strong bases. If these wastes were combined, the reaction could generate sufficient heat to cause a fire. Other containers were labeled flammable, flammable toxic, and a sealed 16-ounce container labeled as a water deposit cleaner containing a solution of hydrofluoric acid.

According to information provided to START, between June 7 and 9, 1999, the potentially responsible party (PRP) deposited the trailer in the Canal Motel parking lot on Chain of Rocks Road, located approximately 1 mile east of the landfill. On June 11, 1999, U.S. EPA and Illinois Environmental Protection Agency personnel contacted the PRP of the hazards associated with the abandoned trailer. The PRP stated he lacked the resources to adequately dispose of the wastes. OSC Turner contacted personnel at the Chain of Rocks landfill to determine if the landfill could provide a secure work area. Waste Management, Inc., agreed to allow U.S. EPA to store the trailer and to work on the landfill property. The Illinois State Police transported the trailer from the motel parking lot to the landfill. The PRP is currently under investigation by the U.S. EPA Criminal Investigation Division (CID).

On June 16, 1999, OSC Turner, START member Paul Atkociunas, and the Emergency and Rapid Response Services (ERRS) contractor Environmental Restoration L.L.C. (ER), mobilized to the staging/work area. ER removed waste materials from the trailer and staged them on poly liners on the concrete drive. Drums which were deteriorated or visibly leaking were immediately placed in 85-gallon steel drums. Miscellaneous containers were roughly segregated into waste type (i.e. flammable, acidic, basic) and by manufacturer/distributor information. START hazcatted waste material in the miscellaneous containers.

On June 17, 1999, ER sampled material from drums found on the trailer. START hazcatted material removed from the drums. On June 18, 1999, ER collected six samples based on hazcat results. Sample WS-1 was composited from nine drums found on the abandoned trailer which were hazcatted as flammable paint-related material. Sample WS-2 was a composite from eight drums that were hazcatted as flammable fuels. Sample WS-3 was collected from drum 5 that was hazcatted as a flammable paint-related material suspected to contain metals. Sample WS-4 was a composite of three drums that were hazcatted as basic liquids. Sample WS-5 was collected from drum 23 that was labeled as a solution of hydrochloric acid. Sample WS-6 was collected from a drum that contained an asphalt-like material and a liquid that were hazcatted as a nonhazardous solid and nonhazardous liquid, respectively. ER delivered the samples to Quanterra Laboratory in St. Louis, Missouri. Table 1 in Attachment B summarizes analyses completed on the six samples. Analytical results are summarized in Attachment B, Table 2. ER placed miscellaneous containers on pallets or in 55-gallon steel drums based on hazcat results and/or distributor/manufacturer information. OSC Turner contacted manufacturers and distributors of material found on the trailer to remove their products.

On June 21, 1999, Fred Nierman with U.S. EPA, and U.S. EPA CID Special Agents Andrew McFarlane and Jennifer Hurley arrived at the staging/work area. Fred Nierman collected nine samples from drums, and one sample from the container labeled water deposit cleaner. OSC Turner continued to coordinate waste removal efforts with distributors and manufacturers. On June 22, 1999, representatives from Goedecke, Sika, Master Builders, and General Electric, as well as several others removed their products from the staging/work area.

On July 19, 1999, representatives from Tri State Motor Transit Company arrived to remove wastes from the abandoned trailer. The wastes were transported to WRR Environmental Services Company, Inc., located in Eau Claire, Wisconsin (U.S. EPA Identification number WID990829475). Waste streams and manifest numbers are located in Attachment B, Table 3. Photodocumentation of activities is included as Attachment C.

This Letter Report serves as the final deliverable for this TDD. If any information is needed or if there are any questions, please contact this office.

Sincerely,



Paul Atkociunas,
START Project Manager



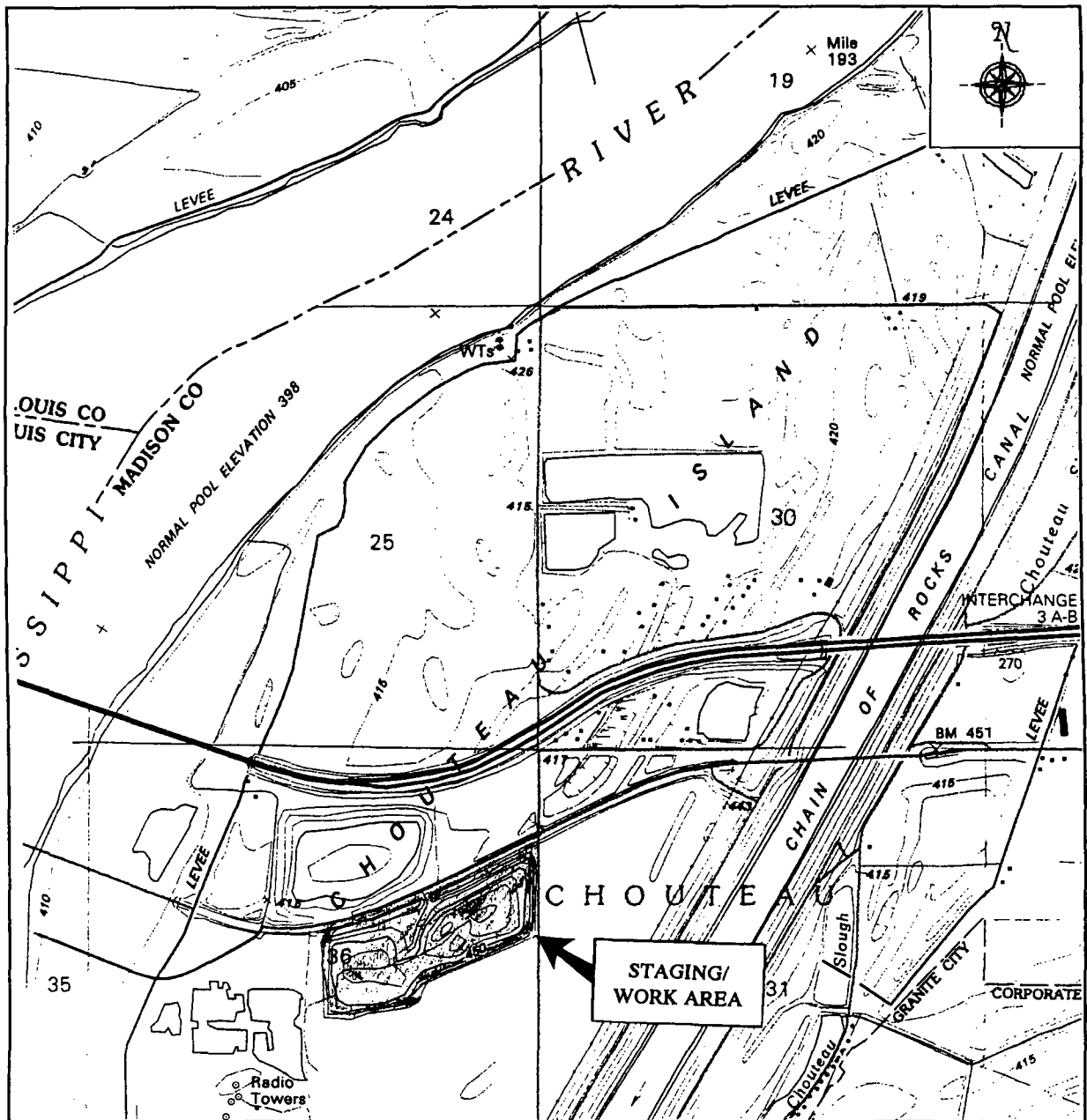
for Mary Jane Ripp,
START Program Manager

Attachments:	A	Figures
	B	Tables
	C	Photodocumentation

cc: Kevin Turner, U.S. EPA OSC
TDD file

Attachment A

Figures



Quadrangle Location

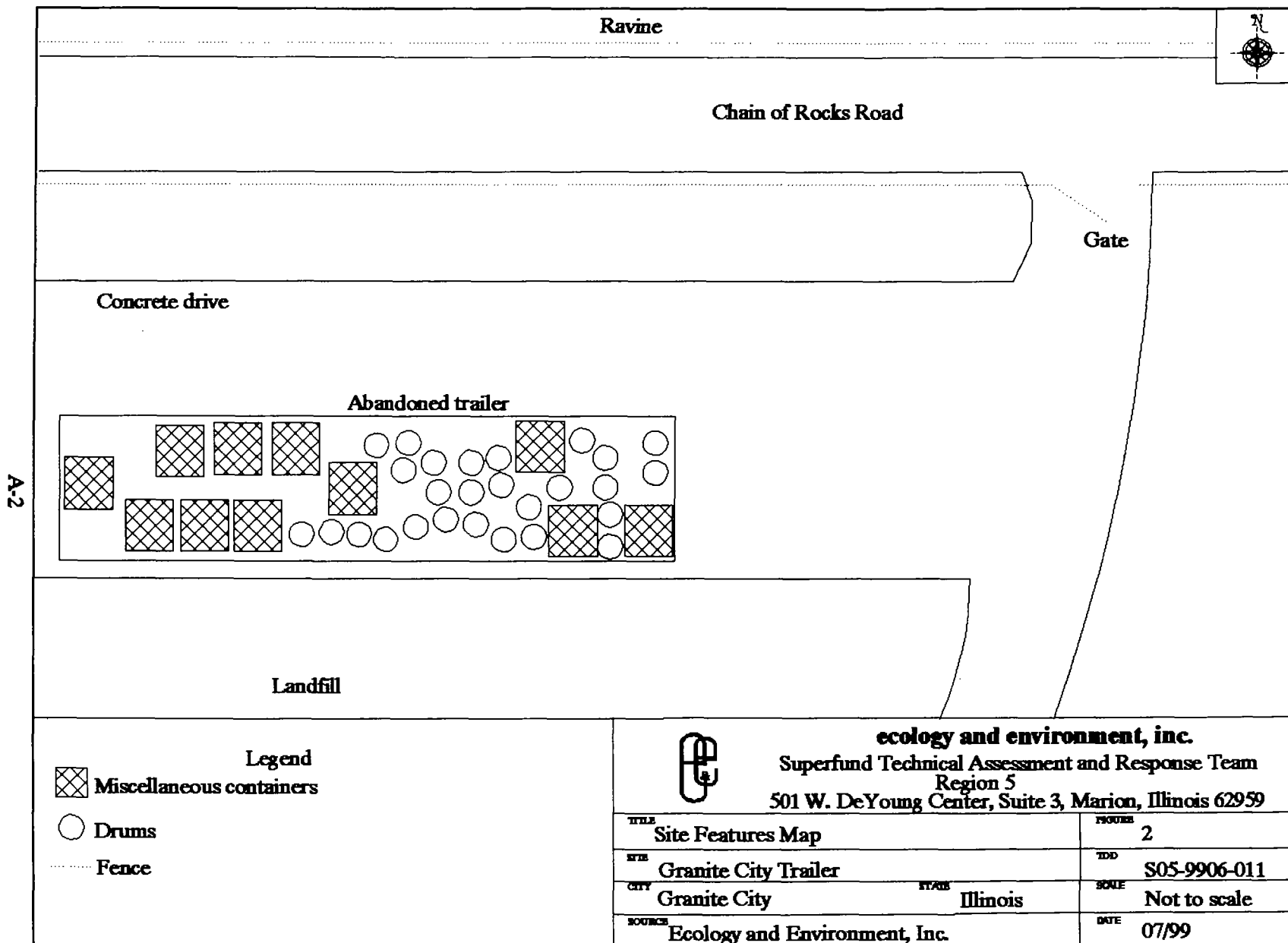


ecology and environment, inc.

**Superfund Technical Assessment and Response Team
Region 5**

501 W. DeYoung Center, Suite 3, Marion, Illinois 62959

TITLE	Site Location Map	FIGURE	1
SITE	Granite City Trailer	SCALE	1:24,000
CITY	Granite City	STATE	Illinois
SOURCE	U.S.G.S. 7.5 Minute Topographic Series, Columbia Bottom Quadrangle, MO - IL	TDD	S05-9906-011
		DATE	1994
		REVISED	N/A



Attachment B

Tables

<p align="center">Table 1</p> <p align="center">SUMMARY OF SAMPLES COLLECTED</p> <p align="center">GRANITE CITY TRAILER</p> <p align="center">GRANITE CITY, MADISON COUNTY, ILLINOIS</p> <p align="center">JUNE 17, 1999</p>		
Matrix	Sample ID	Analyses
Liquid	WS-01	FP, pH, TCLP Metals, TCLP VOCs, TCLP SVOCs, PCBs, Pest/Herb, S, CN, BTU
Liquid	WS-02	FP, pH, TCLP Metals, TCLP VOCs, TCLP SVOCs, PCBs, Pest/Herb, S, CN, BTU
Liquid	WS-03	FP, pH, TCLP Metals, TCLP VOCs, TCLP SVOCs, PCBs, Pest/Herb, S, CN, BTU
Liquid	WS-04	pH, TCLP Metals
Liquid	WS-05	pH, TCLP Metals
Solid	WS-06	TCLP Metals, BTU, PCBs

Key:

FP	=Flash point.
TCLP	=Toxicity characteristic leaching procedure.
VOCs	=Volatile organic compounds.
SVOCs	=Semivolatile organic compounds.
PCBs	=Polychlorinated biphenyls.
Pest/Herb	=Pesticides/herbicides.
S	=Reactive sulfide.
CN	=Reactive cyanide.
BTU	=British thermal units.

<p align="center">Table 2</p> <p align="center">WASTE STREAM ANALYTICAL RESULTS</p> <p align="center">GRANITE CITY TRAILER</p> <p align="center">GRANITE CITY, MADISON COUNTY, ILLINOIS</p> <p align="center">JUNE 17, 1999</p>						
Parameter	Sample Designation/Matrix					
	WS-01/ Liquid	WS-02/ Liquid	WS-03/ Liquid	WS-04/ Liquid	WS-05/ Liquid	WS-06/ Solid
Flash point (°C)	35.5	38.0	31.5	NA	NA	NA
pH (SU)	5.0	5.0	4.0	13.0	1.0	NA
TCLP Metals (mg/L)						
Barium	ND	ND	7.9	1.3	ND	ND
Cadmium	0.21	ND	0.52	0.059	ND	ND
Chromium	0.42	ND	123	ND	7.6	ND
Copper	0.13	ND	0.2	0.25	ND	ND
Lead	19.3	ND	1,110	0.27	ND	ND
Mercury	0.034	ND	ND	ND	ND	ND
Selenium	ND	ND	0.32	ND	ND	ND
Silver	ND	ND	ND	0.11	ND	ND
Zinc	18.9	2.5	32	49.9	13.3	0.047
TCLP Volatile Organic Compounds (mg/L)						
2-Butanone	460	ND	4,200	NA	NA	NA
Carbon tetrachloride	ND	2,000	ND	NA	NA	NA
Reactive Sulfide (mg/kg)	5.8	8.9	6.7	NA	NA	NA
Reactive Cyanide (mg/kg)	ND	ND	ND	NA	NA	NA
BTU (BTU/lb)	16,621	17,492	12,590	NA	NA	6,346

Key:

mg/kg =Milligrams per kilogram.

mg/L =Milligrams per liter.

SU =Standard units.

ND =Not detected.

NA =Not analyzed.

BTU/lb =British thermal units per pound.

°C =Degrees Celsius.

Source: Quanterra Laboratories, St. Louis, Missouri. Analysis provided through ERRS.

<p align="center">Table 3</p> <p align="center">WASTE DISPOSAL SUMMARY</p> <p align="center">GRANITE CITY TRAILER</p> <p align="center">GRANITE CITY, MADISON COUNTY, ILLINOIS</p> <p align="center">JULY 19, 1999</p>		
Waste Description	Quantity	Manifest Number
RQ Waste Paint-Related Material	200 lbs.	WIK03078
RQ Waste Corrosive Liquid, n.o.s., (hydrochloric acid)	300 lbs.	WIK03078
RQ Waste Caustic Alkali Liquid, n.o.s., (sodium hydroxide)	1,200 lbs.	WIK03078
RQ Waste Hydrofluoric Acid	5 lbs.	WIK03078
RQ Waste Flammable Liquid n.o.s., (lead, methyl ethyl ketone)	3,000 lbs.	WIK03063
RQ Waste Flammable Liquid n.o.s., (carbon tetrachloride)	2,400 lbs.	WIK03063
RQ Waste Flammable Liquid n.o.s., (lead, methyl ethyl ketone)	300 lbs.	WIK03063
RQ Waste Paint-Related Material	600 lbs.	WIK03063
RQ Waste Paint-Related Material	900 lbs.	WIK03084
Nonhazardous, Non-Regulated Material (asphalt, calcium chloride)	900 lbs.	WIK03084
RQ Waste Paint-Related Material	2,000 lbs.	WIK03084

Key:

RQ = Reportable quantity.
n.o.s. = Not otherwise specified.
lbs. = Pounds.

Source: Waste manifests from the Granite City Trailer emergency response.

Note: Wastes disposed by WRR Environmental Services Company, Inc.; U.S. EPA Identification number WID990829475.

Attachment C
Photodocumentation



SITE: Granite City Trailer
LOCATION: Granite City, IL

DATE: June 16, 1999
DIRECTION: North

TIME: 0715
PHOTOGRAPHER: P. Atkociunas

SUBJECT: The abandoned trailer stationed at the landfill; note condition of the trailer and drums.



SITE: Granite City Trailer
LOCATION: Granite City, IL

DATE: June 16, 1999
DIRECTION: North

TIME: 0716
PHOTOGRAPHER: P. Atkociunas

SUBJECT: Waste material on trailer; note drum labeled "Paint".



SITE: Granite City Trailer
LOCATION: Granite City, IL

DATE: June 16, 1999
DIRECTION: North
SUBJECT: Waste material on trailer; note red paint leaking from drum.

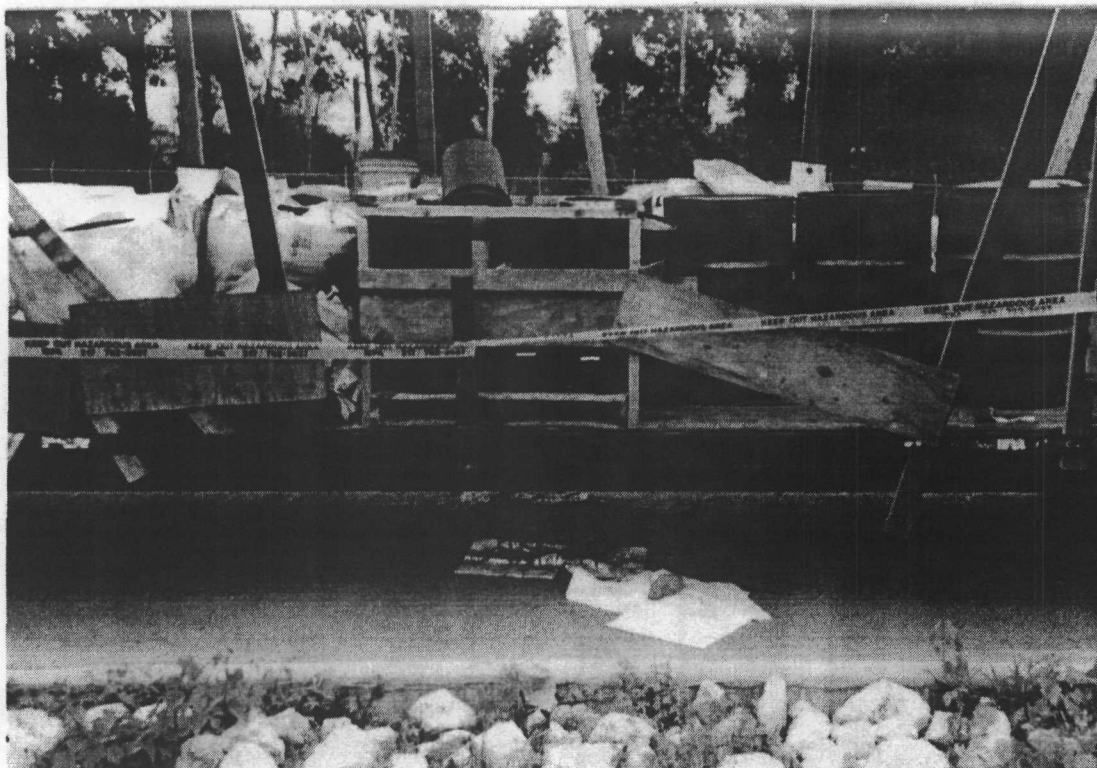
TIME: 0717
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer; note condition of drums.

DATE: June 16, 1999
DIRECTION: North

TIME: 0718
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer; note release of tar-like material from the 5-gallon containers.

DATE: June 16, 1999
DIRECTION: North

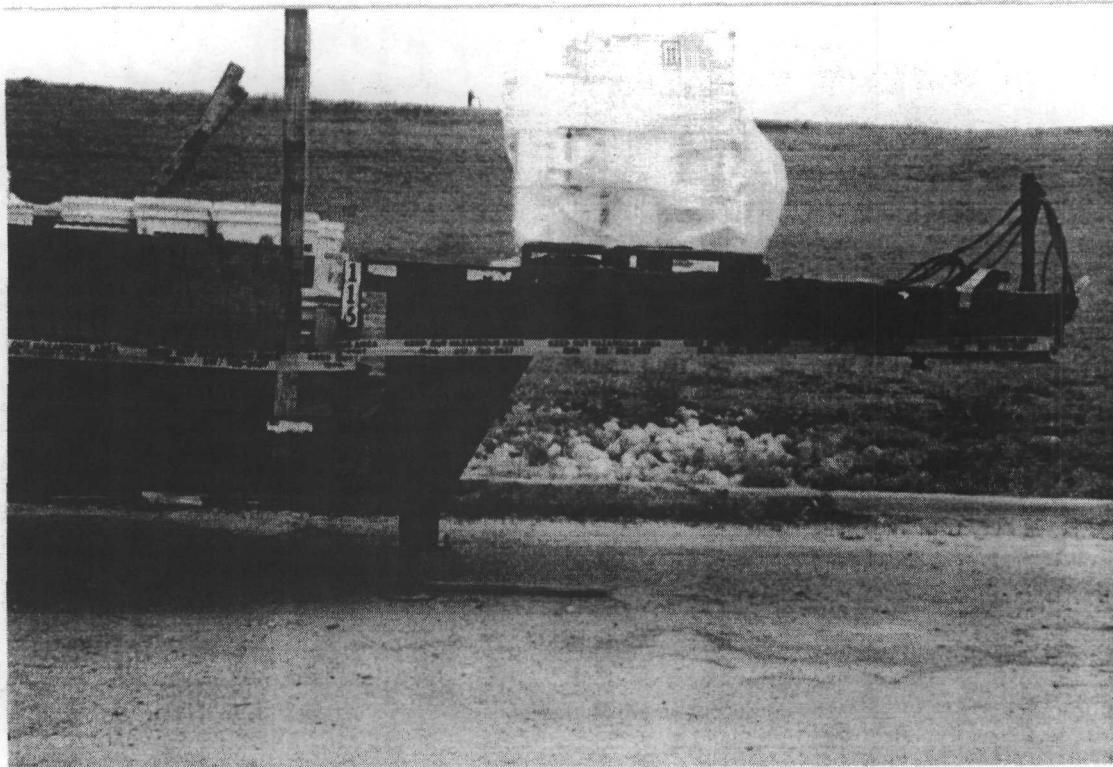
TIME: 0719
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer; note pallet at left contains boxes labeled "Corrosive".

DATE: June 16, 1999
DIRECTION: North

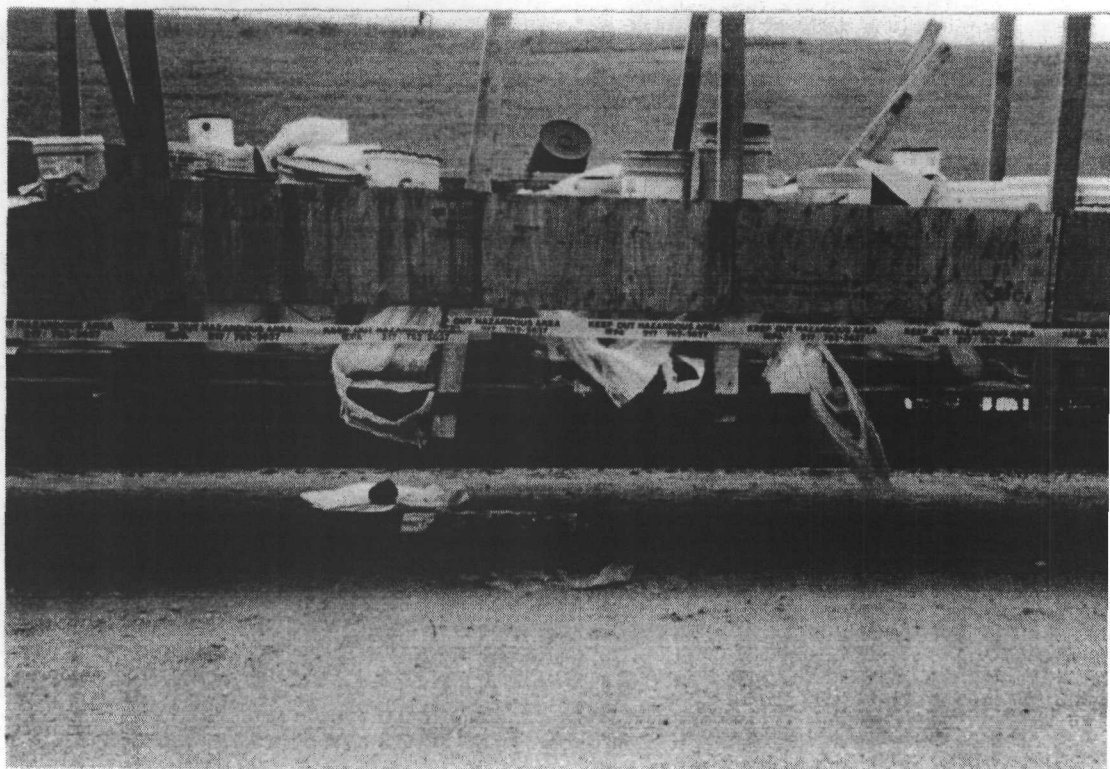
TIME: 0720
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer.

DATE: June 16, 1999
DIRECTION: South

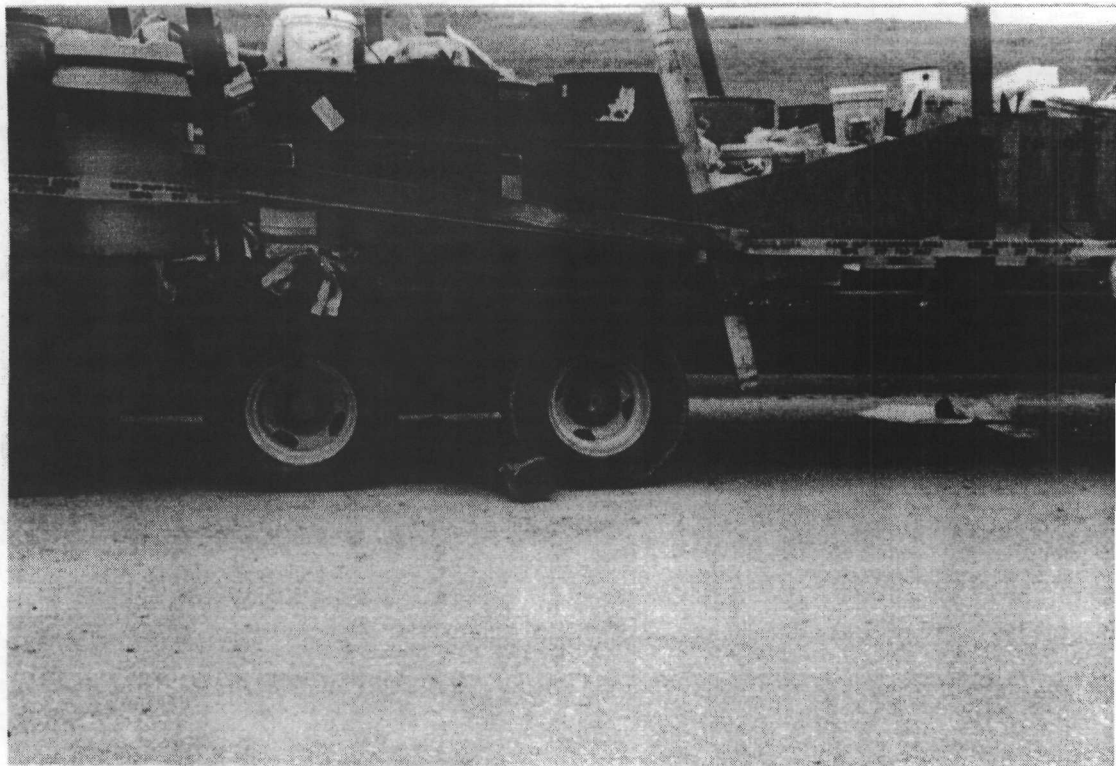
TIME: 0721
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer; note haphazard placement of containers and condition of the trailer.

DATE: June 16, 1999
DIRECTION: South

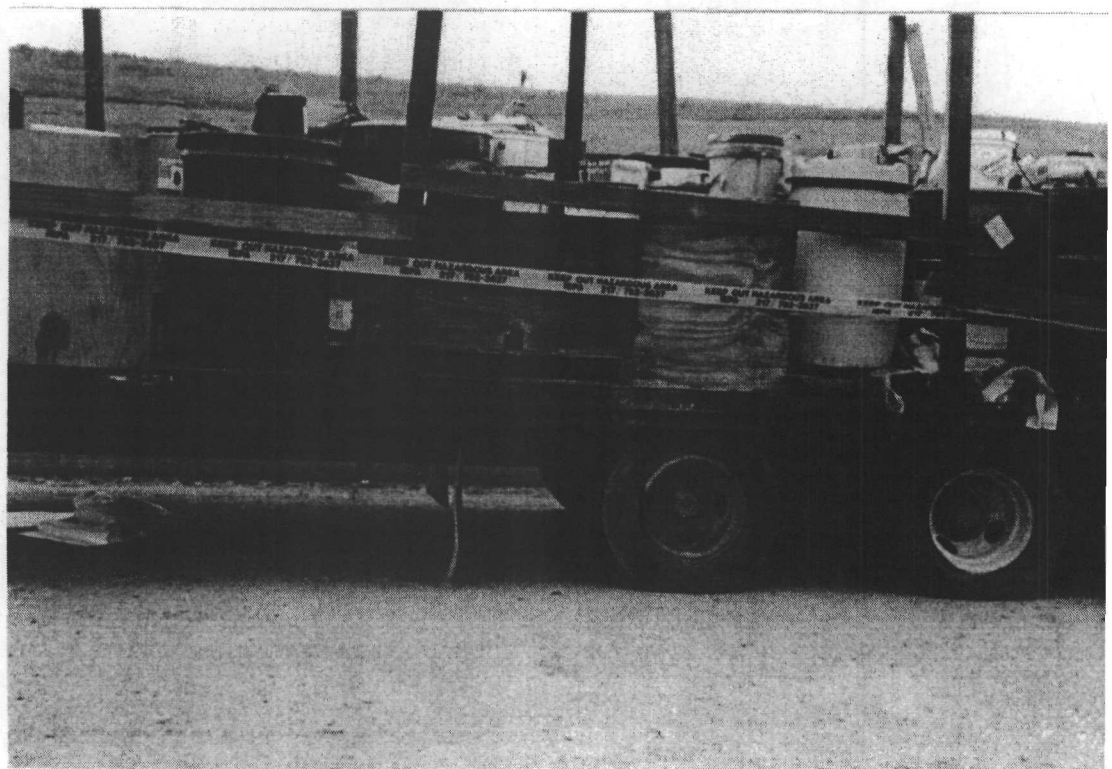
TIME: 0722
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer; note condition of the trailer.

DATE: June 16, 1999
DIRECTION: South

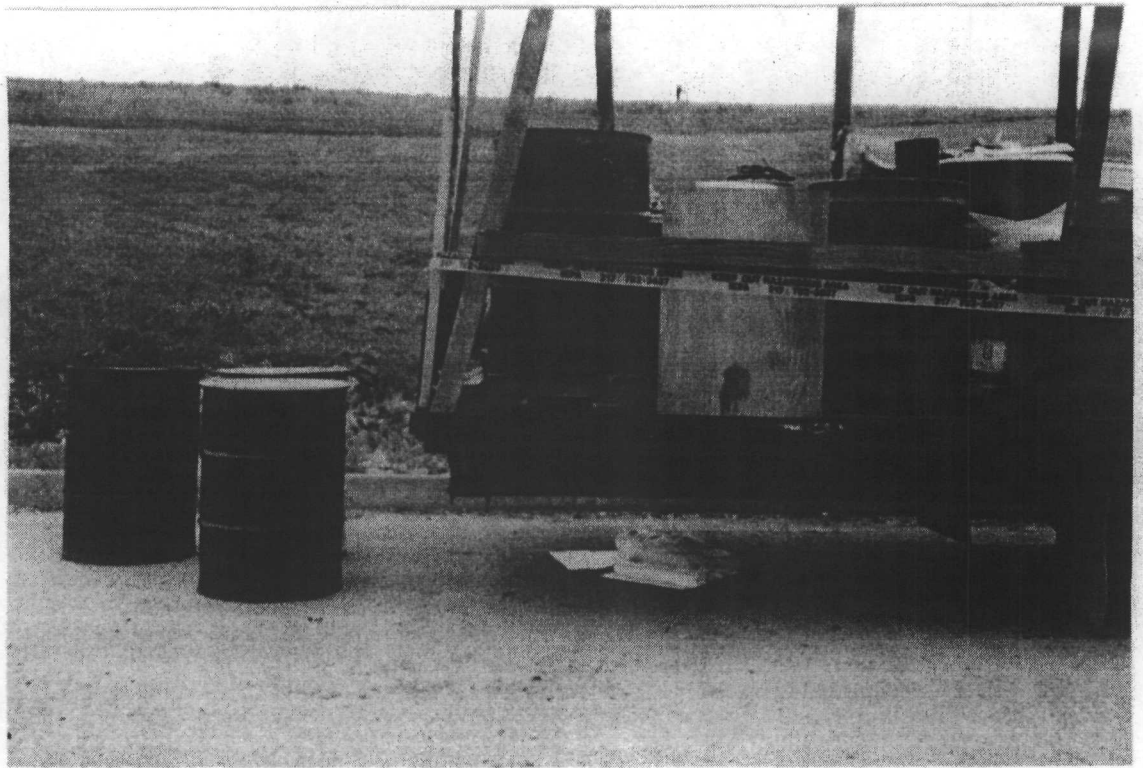
TIME: 0723
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer; note condition of the trailer.

DATE: June 16, 1999
DIRECTION: South

TIME: 0724
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: Waste material on trailer.

DATE: June 16, 1999
DIRECTION: South

TIME: 0726
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer
LOCATION: Granite City, IL
SUBJECT: The abandoned trailer; note condition of the trailer and waste material.

DATE: June 16, 1999
DIRECTION: Southwest

TIME: 0730
PHOTOGRAPHER: P. Atkociunas



SITE: Granite City Trailer

DATE: June 17, 1999

TIME: 0705

LOCATION: Granite City, IL

DIRECTION: Northwest

PHOTOGRAPHER: P. Atkociunas

SUBJECT: Site grounds; deteriorated drums are overpacked, miscellaneous containers are segregated.



SITE: Granite City Trailer

DATE: June 17, 1999

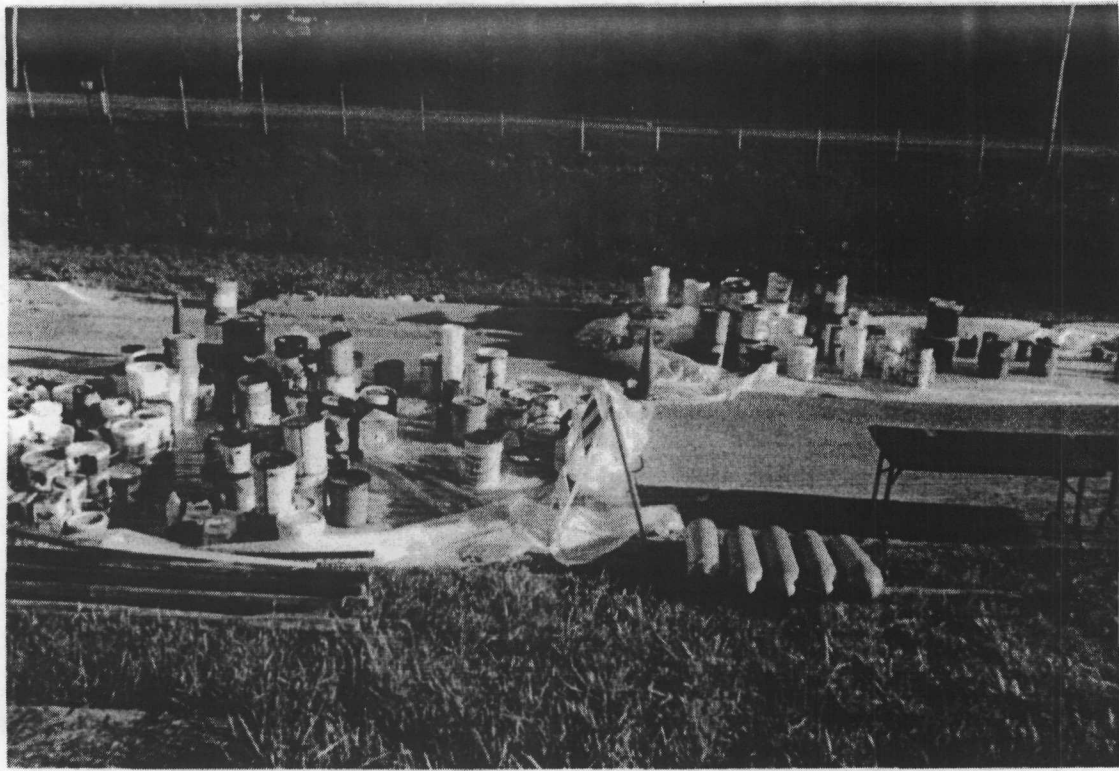
TIME: 0710

LOCATION: Granite City, IL

DIRECTION: North

PHOTOGRAPHER: P. Atkociunas

SUBJECT: Miscellaneous containers removed from the abandoned trailer.



SITE: Granite City Trailer

DATE: June 17, 1999

TIME: 0712

LOCATION: Granite City, IL

DIRECTION: North

PHOTOGRAPHER: P. Atkociunas

SUBJECT: Miscellaneous containers removed from the abandoned trailer.